

**Minutes of the HIST Executive Committee Meeting – Anaheim, CA
March 28, 2004**

Attending: Vera Mainz, Paul R. Jones, Jeff Seeman, Mary Virginia Orna, Ben Chastain, Roger Egolf, Carmen Giunta, Joe Jeffers

Started at 5:05pm. Jeff Seeman chaired the meeting.

1. Corrections to Minutes of the 7Sept03 meeting were discussed. The Minutes were accepted with minor corrections.

2. Sec/Treas. Report –

Vera Mainz gave out summaries of HIST expenses for this year and summary with the other years ([attached](#)), and noted that the 2003 Annual Secretary’s and Treasurer’s Report had been discussed via email prior to the meeting. The Division has a positive balance.

Paul R. Jones mentioned that the expenses at Mich. State have been resolved and our current balance is ~\$2500 still owed. He believes that the recurring costs will be ~ \$1100 per year. There was a consensus that this was actually a small expense for the services rendered.

3. Ben has been at DAC this weekend and discussed the allocation issues with respect to HIST. The proposal presented and approved by the Council last year is [attached](#). This table shows that the amount of allocation received is based on four inputs: Base, Per Member (only ACS members and national affiliates are counted, not Division affiliates), Meeting, and Innovative Projects. Ben reported that the total amount allocated for YEAR 1 will be ~\$582K instead of \$587.2K.

Vera put together a table to show how the allocation numbers could be considered based solely on the first two criteria – Base and Per Member. The amount received per year, therefore, will be larger than the totals in the table below by the distribution from the last two criteria - Meeting, and Innovative Projects. Vera was told unofficially by Judith Jankowski of ACS that the HIST allocation for this year (YEAR 1) will be ~\$2800. The allocations are not out yet because the staff are trying to figure out the correct numbers.

As each Division will receive a base amount plus an amount per member, Vera used 860 members for HIST for the per member computation.

	2001	YEAR 1	YEAR 2	YEAR 3	YEAR 4
Base	\$ 601	\$1,500	\$2,300	\$3,100	\$4,000
Per Member	\$1.19	\$1.15	\$1.30	\$1.45	\$1.60
Per Member X 860 Members	\$1,023.40	\$989	\$1,118	\$1,247	\$1,376
TOTAL	\$1,624.40	\$2,489	\$3,418	\$4,347	\$5,376

The HIST allocation for the last years has been:

YEAR	ALLOCATION
2003	\$2944.93
2002	\$3363.92
2001	\$2477.11
2000	\$1317.22
1999	\$2632.04
1998	\$2525.40
1997	\$2394.04
Average	\$2522.09

Ben discussed the distribution, and how the counts are done. The amount of money back to the division due to innovative projects (such as the Priestley Symposium) is much greater and growing. The Innovative Project guidelines have already been established by DAC and are available on the web at <http://membership.acs.org/c/cda/> - click to Innovative Projects. Essentially, each Division may apply for the \$50,000 in additional funds – up to \$5000 per project, 2 projects max per Division, \$7500 total per Division.

Vera and Ben both discussed the allocation formula. The meeting allocation is based on the current (“old”) formula: 40% from oral sessions, 30% for registered members, 20% poster papers (SciMix doesn’t count), and 10% exposition visitors. This formula will change after the DAC meeting in Anaheim.

Roger Egolf asked about applying for the Innovative Projects funding to pay for supplying local section meetings with speakers. Carmen said he would like to ask for support money for the CFC symposium he is organizing. Jeff asked Ben to send a list of projects funded this year.

Will be giving the first joint Chemluminary Award this year.

4. Mary Virginia Orna – Councilor’s Report. Mary Virginia is still on the Committee on Committees. Her term will be up this year and she will be standing for election to this committee again, if nominated, this fall. She requested the HIST executive committee’s advice on other committees she should be thinking about serving on if she doesn’t get re-elected to this one. Vera mentioned the Committee on Science, but Mary Virginia thought there was only a small chance of that happening. The next step for someone like Mary Virginia would be the third elected committee, Council Policy Committee. However, this may not be of much use for HIST. HIST might want to think about positioning someone to eventually serve on the Board of Directors of the ACS.

Local Section Activities Committee would be a good choice. Mary Virginia has been a liaison to SocEd for two years. She has just been moved to serve as a liaison to Pubs – very high powered committee. This committee is basically a conduit for information to be given to members. She sat in on copyright subcommittee and the discussion of what they are trying to do via the web. The subcommittee is trying to develop a tutorial on copyright law via the web. Mary Virginia

also sat in on presentations given to regular committee. She reported hearing that big markets for the institutional markets for journal suites are Russia and other developing countries. ACS has tried to sweeten the pot by not charging so much to begin to these customers and then they up the price. Mary Virginia has looked into getting JCHED or the Bulletin into the ACS suite. She reported that since both are divisional journals and not ACS journals there is no possible way to accomplish this.

Mary Virginia also served as liaison to the Committee on Technician Affairs and has found this very fruitful in organizing symposium for this meeting.

This report led to a discussion of electronic delivery of abstracts and newsletter for HIST. Mary Virginia says we need to educate our members if we decide to do this, such as letting them how to look at this on a public library. She also said we needed to make a decision about this. Suggested someone come up with a proposal process on how to put this into place. Carmen said he would put together a proposal. There was a discussion on the ~25% of members who don't have email addresses listed with their other ACS member information. Vera should send list of those people to Roger.

The Councilor's Report is [attached](#) to these minutes.

5. Program Chair Report. Roger Egolf reported that:

Anaheim – 12 submitted papers

Philadelphia – The Priestley symposium will consist of 4 sessions instead of 6 as some funding did not materialize. Jim Bohning will interview Joseph Priestley.

The Edelstein symposium will consist of one session which plus general papers which will start on Sunday afternoon with the Edelstein Luncheon.

There was a discussion of the site of the Edelstein Luncheon – CHF vs. the convention center. Jeff Seemans was asked to discuss this as well as the broader issues of CHF continuing support of HIST with Arnold Thackray. Jeff said he would ask David Lewis, as chair, to delegate this task to Jeff.

Roger was given permission to schedule the Edelstein luncheon and symposium at CHF.

Roger attended P2C2. Joe Jeffers is taking over as program chair next year.

6. Bulletin. Activity this year – v29(1) has come out. It is the first issue with Yiddish. Paul noted that the header on even pages in this issue is incorrect. Stephen Cohen belongs to association of Jewish scholars and Paul has received many requests for reprints.

If all goes forward as planned, we will have an interesting paper in next issue. British retired physician has analyzed Samuel Johnson's Dictionary for chemical terms and looked at contents of Johnson's library.

Paul presented a breakdown of papers and book reviews in the Bulletin from 15/16 to 29(1) submitted from US authors vs. non-US author. The report also showed a profile of papers received, accepted, rejected, withdrawn. See [attached](#) report.

Jeff asked how much it would cost to print an extra 1000 and 4000 issues which could be handed out at regional meetings. Paul will check on this.

In the [attached](#) report is also a summary of Editorial responsibilities – page on how this would work. Paul has put together a list of editor duties vs. those of the three associate editors. Mary Ellen Bowden has book reviews, Leo Slater authors and reviewers, Carmen Giunta the index. Jeff said it was important to let the associate editors handle at least single paper per year. Paul said we need to increase our pool of reviewers.

Paul plans to have a cumulative index in 30(2) which would include the book reviews, too.

Paul received phone call from Scott Lockledge CHF about possibility of CHF “helping” with Bulletin. Jeff has had similar discussion with Arnold Thackray. Nothing concrete has been suggested so far.

Carmen suggested selected papers from the Bulletin on the Website – one a year or one an issue. Vera stated this is quite doable, she just needs to be told which paper(s).

Jeff asked about whether we get copyright releases from authors. Paul told us that he sends two copies of each Bulletin to the copyright office in Washington. Sharon McGrayne – since she is a professional writer -- she sent a copyright release. One – we give rights over our published material. 2 – have we protected ourselves from we infringing upon them. Do we put the burden on the author to make sure all the releases are in place? Existing policy is that we need copyright release from the image owner. Paul was asked to talk to check with ACS about copyright compliance.

7. Election

Vera reported that we need to elect Chair-Elect, Sec/Treas, Councilor (both Mary Virginia and Ben), and alternate councilor (Carmen). See [attached](#) table for election schedule. Mary Virginia asked why both councilors needed to be elected, and Vera said it is strictly a cost saving measure. If we elect everyone this year it saves us from having another election next year just for Mary Virginia’s position. Vera will speak to David about appointing a nominating committee.

8. Mary Virginia Orna discussed the 28-30Oct04 Western Regional Meeting in Sacramento. She \$3000 from office of regional meetings to present “The Most Beautiful Experiments in Chemistry.” She made a general request for speakers and handed out a copy of the talks needed – see [attachment](#). Mary Virginia noted that the support for speakers giving a single paper is \$300 and \$500 if presenting two papers.

9. Carmen Giunta said that the CFC Symposium is in the organizing stage for the San Diego meeting. He is looking at co-sponsors and funding sources, including DAC funding for

Innovative Grants. Any request for Innovative Grant funding needs to come via HIST division. The committee requested Carmen put together a proposal which could be forwarded from HIST. The committee also approved HIST support of this symposium at \$500 level and the guest registrations.

10. MARM (Mid-Atlantic Regional Meeting) program flyer was handed out, showing that among the major areas of programming were history in New Jersey and history of chemistry in general.

11. HIST Citation for Chemical Breakthroughs – Jeff Seeman.
Jeff handed out a proposal to honor seminal advances in chemistry. (See [attachment](#).) David said Jeff needed HIST approval in principle and that he needed to specifically check with the ACS on those issues identified with the ACS (such as use of logo and name). Jeff asked for support of this as an initiative of HIST.

Mary Virginia made a motion that this should be an official initiative of HIST as part of its outreach program. That HIST would like to support it both financially and morally. That HIST embraces it as an initiative and support it financially. This motion was approved by the executive committee. This is meant to be a permanent program. Two names proposed –HIST Citation for Chemical Breakthroughs (CCB) and HIST Citation for Chemical Milestones (CCM).
[Jeff – I can't remember if we approved one or not, and if so, which.]

HIST General Business Meeting
March 29, 2004

At the HIST General Busn. Meeting on Monday morning, Vera Mainz chaired as Jeff was unavailable.

a) Vera announced that there would be an election this fall. Bert Ramsay felt we were not following Division guidelines, as there was no notice of the election in the Abstracts or the Bulletin this Spring. He felt this lack of general call for nominations would lead to a clique developing in the Exec. Committee. I told him I would report his unhappiness to the Executive Committee, but noted we do need to move on the election.

b) Bert Ramsey was also unhappy about how guest registrations and travel support were handled and wanted our policy to be stated. Vera told him the policy was to pay for travel only for the Edelstein symposium speakers, and that only for a maximum of \$500. Vera stated that other speaker travel was not supported unless a symposium organizer had gathered money to do so. It is our policy to pay for guest registrations for non-members if they were invited speakers at a symposium. Bert seemed to indicate a darker problem, but wouldn't clarify. Vera invited him to email me additional details but has not received any.

c) Vera brought up the suggestion of not mailing the separates, and those at this meeting were not opposed, they just thought people should be warned as much in advance as was possible. They also suggested mailing the Bulletin and separates on CD's as a possibility to consider.

**HIST Finances SUMMARY --
March 23, 2004**

Category Description	2004	2003	2001	2000	1999	1998	1997	1996	
INCOME									
Allocation ACS		\$2,944.93	\$3,363.92	\$2,477.11	\$2,345.88	\$2,632.04	\$2,525.40	\$2,394.04	
Stopgap Funding			\$4,000.00	\$6,800.00					
Bulletin - Lib	\$228.00	\$2,180.00	\$2,592.00	\$2,502.00	\$1,589.50	\$989.21	\$1,837.00	\$1,408.00	\$326.00
Bulletin-Bkls	\$48.00	\$222.00	\$270.00	\$772.00	\$22.00	\$304.00		\$633.00	\$60.00
Cachet Income								\$54.00	\$16.00
Counc Trav Reim		\$2,832.35	\$4,394.71	\$2,958.65	\$2,695.22		\$913.71	\$2,338.86	\$1,000.00
Div Income	\$2.54	\$12.41	\$61.58	\$244.83	\$384.76	\$296.97	\$279.04	\$339.93	\$229.91
Donations	\$800.00	\$600.00	\$1,000.00	\$7,890.00	\$480.00		\$500.00		
Dues Income	\$7,874.18	\$11,788.00	\$12,164.43	\$11,849.32	\$11,505.51	\$11,761.00	\$10,915.30	\$12,322.24	\$8,968.00
Invest Inc		\$664.55	\$493.25	\$937.07	\$462.96	\$420.25	\$652.54	\$813.37	\$569.19
Meeting Award		\$3,500.00	\$3,500.00	\$4,100.00					
Meeting Grant		\$10,800.00	\$3,500.00	\$2,000.00	\$2,000.00				
Misc Inc				\$34.01	\$18.33		\$108.10	\$165.00	\$54.53
New Member Commission				\$15.00					
Other Inc		\$15.00				\$5,500.00			\$5,000.00
Royalties		\$942.64	\$267.89	\$669.12	\$965.40	\$1,169.16	\$1,111.36	\$646.34	\$515.47
TOTAL INCOME	\$8,952.72	\$36,501.88	\$35,607.78	\$43,249.11	\$22,469.56	\$23,072.63	\$18,842.45	\$21,114.78	\$16,739.10
EXPENSES									
Abstracts		\$3,463.70	\$3,846.52	\$7,582.94		\$2,431.87	\$2,777.65	\$2,201.64	
Audio-Visual		\$325.00	\$146.66	\$239.66		\$130.00		\$155.00	
Award		\$4,040.00	\$4,305.00	\$3,045.09	\$2,300.00		\$280.00	\$110.00	\$100.00
Bulletin	\$5,516.21	\$12,785.50	\$15,701.11	\$9,863.35	\$9,985.90	\$14,799.95	\$9,004.02	\$11,593.14	\$13,584.58
Counc Trav Exp		\$4,140.33	\$3,915.32	\$3,930.28	\$3,886.12	\$1,666.37	\$1,333.33	\$1,820.05	\$2,647.77
Division Admin		\$60.00	\$23.81	\$828.97	\$40.00	\$80.00		\$240.00	\$120.00
Guest Reg		\$1,050.00	\$585.00	\$585.00			\$525.00	\$1,035.00	\$105.00
Invest Exp	\$150.00	\$150.00	\$5,150.00	\$150.00	\$150.00	\$150.00	\$150.00	\$155.76	\$150.00
Meals & Entertn		\$1,730.23	\$1,461.38				\$603.97	\$965.08	
Misc	\$263.97							\$64.30	
Nat Mtg Trav	\$857.50	\$675.00	\$1,178.12	\$1,767.05	\$1,010.05	\$2,066.50	\$1,247.68	\$2,073.74	\$1,333.50
Office			\$391.99	\$56.20		\$153.98	\$1,022.87	\$723.51	\$148.12
S&BS Grant		\$300.00							
Social Event			\$395.00	\$2,609.92	\$390.00	\$733.70			
Speaker Trav		\$8,419.95	\$4,150.79	\$1,074.00	\$3,160.13		\$2,418.60	\$2,422.99	
TOTAL EXPENSES	\$6,787.68	\$37,139.71	\$41,250.70	\$31,732.46	\$20,922.20	\$22,212.37	\$19,363.12	\$23,560.21	\$18,188.97
OVERALL TOTAL	2,165.04	-637.83	-5,642.92	11,516.65	1,547.36	860.26	-520.67	-2,445.43	-1,449.87

FOR COUNCIL APPROVAL/ACTION

In the event of the passage of the Petition for Division and Local Section Funding, the Divisional Activities Committee (DAC) has devised the following distribution procedure for COUNCIL approval. While the distribution formula must be reviewed by COUNCIL every three years, or sooner, four years are included for reference to match the Implementation Schedule for the Bylaws.

Category		2001	YEAR 1	YEAR 2	YEAR 3	YEAR 4
Base	Amount/Division	\$ 601	\$ 1,500	\$ 2,300	\$ 3,100	\$ 4,000
	Aggregate Amount	\$ 20,434	\$ 51,000	\$ 85,000	\$ 119,000	\$ 153,000
	Percent of Total	5.1%	8.7%	10.6%	11.8%	12.2%
Per Member	Amount/Member	\$ 1.19	\$ 1.15	\$ 1.30	\$ 1.45	\$ 1.60
	Number of Members	89,180	113,000	113,000	113,000	113,000
	Aggregate Amount	\$ 106,124	\$ 129,950	\$ 146,900	\$ 163,850	\$ 180,800
	Percent of Total	26.3%	22.1%	18.3%	16.2%	14.4%
Meeting	Aggregate Amount	\$ 252,609	\$ 355,000	\$ 500,000	\$ 640,000	\$ 800,000
	Percent of Total	62.5%	60.5%	62.3%	63.3%	63.8%
Innovative Projects	Aggregate Amount	\$ 25,000	\$ 51,276	\$ 70,540	\$ 87,700	\$ 119,450
	Percent of Total	6.2%	8.7%	8.8%	8.7%	9.5%
Total	Aggregate Amount	\$ 404,167	\$ 587,226	\$ 802,440	\$ 1,010,550	\$ 1,253,250

Division of the History of Chemistry
Councilors' Report
Anaheim, CA
March 28 – April 1, 2004

Both HIST Councilors regularly attend both Council meetings. Highlights of the Council Meeting at Anaheim, March 31, 2004 follow:

The meeting began with a memorial for five Councilors who had passed away during the previous year. It was then announced that there were over 14,000 attendees at this meeting, including about 7,600 regular members and about 3,800 students.

The nominees for President-Elect presented themselves and each made a three-minute statement. The two selected by Council were F. Sherwood Rowland and Isiah Warner; it was also announced that E. Ann Nalley would be a petition candidate. It was also announced that Judith Giordan would be a petition candidate in the election for a Director-at-Large; the other nominees are David F. Eaton and Theodore E. Tabor.

Reports of the members of the presidential succession followed. President Chuck Casey announced that the theme of the Anaheim conference was nanotechnology and that there were numerous symposia throughout the meeting focused on this developing field. He said that the theme in Philadelphia in fall, 2004, would be graduate education. He also unveiled a new initiative aimed at helping colleges and universities recruit faculty members. Similar to the ACS Employment Clearinghouse for industrial job seekers, the Academic Employment Initiative (AEI) is a pilot project aimed at broadening the faculty recruitment process by including personal interactions between job candidates and recruiters before invitations to campus visits occur. To this end, a symposium on faculty recruitment followed by a poster session at which faculty candidates presented posters on their research and teaching philosophy took place during the Anaheim meeting.

President-Elect Bill Carroll is developing the themes for his presidency and suggest three to begin with:

1. How chemistry and we as chemists are perceived by the public;
2. The possible correlation between pre-college science and how it is taught and the negative public perception of chemistry;
3. The globalization of the chemical enterprise

As a result of thinking about these issues and many others that impact the profession, Bill is asking each of us to spend some time in the coming year developing and debating scenarios of how our field will change in the next ten years.

Bill also suggested that ACS Tour Speakers develop a 20 minute presentation of their talks aimed at a pre-college audience and that they take the time during their tours to visit schools and to try to help in changing a public perception that is in all probability negative. He also welcomes your ideas and promised to respond to you personally within 24 hours if you email him at bill_carroll@oxy.com.

Immediate Past President Elsa Reichmanis came away from her year as President conscious of a number of needs:

1. Improve communication of what ACS has to offer to its members;
2. Collaborative effort to improve K-12 education and public understanding of chemistry;
3. Effectively communicate the many awards ACS presents to recognize outstanding scientists from all sectors of the chemical enterprise.

Chair of the Board James D. Burke outlined the Board's priorities:

1. Continue efforts to be an effective, supportive partner of the ACS Council;
2. Continue to work with the American Institute of Chemical Engineers (AIChE) to develop a robust programmatic alliance for our mutual benefit;
3. Support the ACS Leadership Conference to develop future ACS leaders;

4. Support the Minorities in Academe initiative;
5. Establish the Malta Conference on Chemical Sciences in the Middle East as a cooperative biennial meeting.

The new Executive Director, Madeleine Jacobs, reported a restructuring of the ACS programs by creating a new Division of External Affairs that brings together the Office of Communications, the Office of International Activities, the Office of Legislative and Government Affairs, the Green Chemistry Institute, and the Research Grants Office.

Following these reports, a lengthy planned discussion on the exploration of a partnership between ACS and AIChE took place. The present discussion involves how the two societies can best cooperate on the levels of program planning, membership, and operational initiatives that would include a host of membership services for both cohorts.

Several petitions were placed before Council for consideration at this meeting: Petition for Electronic Balloting, Petition to Change Division Annual Report Deadline, and a Petition for Membership Requirements for Teachers.

No questions of note were voted on at this meeting.

Mary Virginia Orna continues to serve on the Committee on Committees (ConC) and in this capacity is the ConC Liaison to the Joint Board-Council Committee on Publications and also to the Committee on Technician Affairs. In this latter capacity, she organized and chaired a joint symposium with the Chemical Technicians Division at this meeting on "Chemical Technicians in History" which was well-received by a packed house. Both divisions agreed that future programming on this theme would be very welcome.

Ben Chastain continues to serve on the Divisional Activities Committee (DAC) where he co-chairs the Divisional Enhancement Subcommittee (grants and awards). He is also Co-Chair of the Joint Subcommittee on Division - Local Section Interaction, and DAC Liaison to the Local Section Activities Committee (LSAC), the History of Chemistry Division (HIST) and the Biological Chemistry Division (BIOL).

Respectfully submitted,

Ben B. Chastain

Mary Virginia Orna

BULLETIN FOR THE HISTORY OF CHEMISTRY
EDITORIAL RESPONSIBILITIES

EDITOR

- Handle mss. received: distribution to reviewers, correspondence with authors and reviewers
- Make final decisions on acceptance of mss. for publication as papers, letters, book reviews
- Coordinate all activities for production of issues
- Coordinate distribution of issues to HIST subscribers and libraries
- Handle claims for missing issues and requests for back issues
- Oversee updated list of library subscriptions and make effort to increase subscriptions
- Carry out general correspondence with subscribers and potential authors and reviewers
- Participate in Executive Committee meetings of HIST

ASSOCIATE EDITORS

Advisory

Serve as advisors to editor on matters of policy and procedure

Book Reviews

- Collect titles of recently published books in the history of chemistry
- Establish contact with publishing houses of such books and an ongoing request for provision of review copies
- Prepare tabulation of past book reviews and reviewers
- Update list of reviewers and continually seek additional reviewers
- Review criteria for books to be reviewed and guidelines for writing of reviews

Authors and Reviewers

- Be aware of individuals active in the history of chemistry by noting professional programs at meetings of HIST, History of Science Society, and other national and international history of science symposia
- Maintain current directory of potential reviewers with areas of expertise

Index

- Produce author and subject index for each issue
- Prepare cumulative indices, probably for publication at five-year intervals

BULLETIN FOR THE HISTORY OF CHEMISTRY
Distribution of Authors by Nationality

VOLUME(YEAR)	US AUTHORS	NON-US AUTHORS
15/16(1994)	11	1
17/18(1995)	5	4
	3 (Book reviews)	
19(1996)	10	1
	2 (BR)	
20(1997)	12	0
	2 (BR)	
21(1998)	9	2
	4(BR)	
22(1998)	3	2
	4(BR)	1(BR)
23(1999)	6	3
	5(BR)	
24(1999)	8	1
	5 (BR)	
25(1)(2000)	8	4
	2(BR)	
25(2)(2000)	5	5
	3(BR)	
26(1)(2001)	5	5
	2(BR)	2(BR)
26(2)(2001)	7	1
	7(BR)	
27(1)(2002)	9	1
	5(BR)	
27(2)(2002)	1	4
	4(BR)	2(BR)
28(1) (2003)	6	
	5 (BR)	
28(2)(2003)	4	2
	7(BR)	
29(1)(2004)	5	1
	6(BR)	
TOTALS	114 papers (75%) 66 BR (93%)	37 papers (25%) 5 BR (7%)
PAPERS/ISSUE:	9	
BR/ISSUE:	4	

PROFILE OF PAPERS RECEIVED, ACCEPTED, REJECTED, WITHDRAWN
(Volume 25ff)

RECEIVED	ACCEPTED	REJECTED	WITHDRAWN	PENDING
87	64 (74%)	8 (9%)	4 (4%)	11 (13%)

BOOK REVIEWS: 12 pending

COST ANALYSIS, 29(1):

Graphic Artist	\$1,280
Printing	2,985
Packaging	372
<u>Subscr. Comp.</u>	<u>236</u>
1100 copies printed	\$4,873 (\$4.43/copy)

The Most Beautiful Experiments in Chemistry

Symposium Organizers: Mary Virginia Orna and Harold Goldwhite

1. Philip Eaton & Thomas Cole, Jr. in 1962 ("The Cubane System," JACS 86, 962-4 (**1964**); "Cubane," JACS 86, 3157-8 (**1964**);
2. Louis Pasteur's separation of optical isomers
3. Mary Virginia Orna: Isolation and characterization of the first noble gas, argon, as a model scientific investigation. Lord Rayleigh (John William Strutt) and William Ramsay
4. Davy's discovery of potassium and sodium
5. J.M. Hayes and P. Perez. The Curies' discovery of polonium and radium
6. Antoine Lavoisier's experiments in which he carefully weighed reactants and products of chemical reactions in order to account for all of the transformations involved made chemistry a quantitative science, allying it with the beautiful realm of numbers
7. Alexander Williamson prepared ethers by reacting alkali metal alkoxides with alkyl iodides. Not only did he discover a simple and elegant synthetic route for etherification, but he also inferred from the mixed ethers that he made the true structural relationship between ethers and alcohols. Until Williamson's experiments, it was an open question whether ethers were made from two alcohol units less water or whether alcohols were composed of ether plus water.
8. Harold Goldwhite. Edward Frankland's preparation of organometallic compounds was a simple marriage of the two great realms of chemistry
9. R. B. Woodward's syntheses of cholesterol and related steroids are exemplary for architectural beauty.
10. Mary Virginia Orna. Elegant chemical experiments and their application in the classroom

Proposal to Honor Seminal Advances in Chemistry

Possible Names:

HIST Citation for Chemical Breakthroughs (CCB)

HIST Citation for Chemical Milestones (CCM)

Situation Analysis.

Identifying and celebrating chemical successes are important to the continued success of chemistry worldwide. Unfortunately, there are few permanent, publicly-displayed designations of seminal advances in chemistry. The ACS National Historic Chemical Landmark Program is the only permanent and public celebratory designation for chemical and chemical engineering successes. Limited by funds and by very specific program regulations, the Landmark Program makes only a few awards each year.

HIST is in a position to make a major and continuing contribution to and impact on the recognition of chemical history and progress. HIST has shown the required "staying power" by its record of continuous programming at National ACS meetings, awarding the Dexter (and now Edelstein) Awards, and by the continuity of publication of the Bulletin.

HIST can also draw in participation of additional professionals into HIST's programs by having high visibility, high impact "limited work effort" projects such as the Edelstein Award.

Proposal.

HIST will recognize seminal chemistry publications and patents, worldwide in a fashion that will be permanent, sophisticated, understandable to a range of "viewers", reasonably inexpensive, publicly-displayed, and manageable by the Division. The process will involve engaging new chemistry professionals (to be on the nominating and awards committee) and local sections and HIST members to make the awards presentations.

Summary.

Beautiful and prestigious-appearing plaques will be placed in laboratories worldwide, to celebrate and draw attention to seminal publications and patents in chemistry and the location of the discovery/invention. Each plaque will reproduce the first page of seminal publications and patents in the areas of chemistry embraced by the ACS.¹ The location of the discovery/invention will be honored, along with the scientists/inventors. Over time, there will be a series of plaques worldwide, to recognize important achievements in chemistry.

Additional Details.

- 1) HIST will organize a rotating multi-member awards committee.
 - i. The Edelstein Award process can be used as a model.
 - ii. HIST can provide the committee with broad guidelines, based on a multi-year program and the available budget
 - iii. HIST should work closely with the ACS Landmarks group, the CHF, and C&EN (Rudy Baum) to enhance the development and exposure of the program

- 2 The committee and/or HIST will solicit recommendations from the chemical community for awardees.
 - i) Issues to be discussed and decided can include the scope of the first few years of awardees, e.g., how many awards, what fields, how to begin when the initial pool is so large with great possibilities
 - (a) First year or two, the awards likely should be as broad-based as possible, establishing the precedent that this is an eclectic award. For example, an award could be made in at least one third world country, at least one in Canada (e.g., Michaelis/Menten paper would be a natural because it would include Canada, a woman, and biochemistry all in one).
 - ii) Perhaps the first few years, awards will be multidisciplinary. In subsequent years on a revolving basis, awards might be focused on a single discipline, and the awards committee might be constituted of individuals having selected disciplinary expertise
 - 3) HIST will announce the awardees.
 - i) HIST can provide a general press release to C&EN, Science, Nature, New Scientist, The Scientist, American Scientist, etc.
- 4) Each awardee/institution will receive an engraved plaque, to be hung outside the laboratory or office where the publication/patent work was performed.
- 5) The plaque will contain the first page of the publication or patent, along with a simple statement such as "ACS History of Chemistry Award for Seminal Publication".¹
- 6) For an example of the plaque, see: <http://www.idcpatent.com/awards.asp> (ERE-01).
- 7) The plaques are deeply etched, permanent and high quality. HIST has received a sample and have seen others (Philip Morris has used this company for its patent awards for some years). We have received an excellent bid: 9x 12" \$119 each; 12x 15" \$188 each.
- 8) Yearly budget will be ca. \$1500-2000 for 10-15 plaques.
 - i) HIST should likely not initiate such a program until a reasonable amount of funding is already available, e.g., funding for a five year period.
- 9) HIST will seek outside funding. Likely contributors could include ISI, the Chemical Heritage Foundation, the Dreyfus Foundation, and the chemical industry. Individuals may also be willing to make contributions to this program.
- 10) Each recipient institution can decide upon what type of ceremony, if any, they will have. HIST will provide ideas for ceremonies.
 - i) HIST can contact the ACS Local Sections to participate in an Awards Presentation.
 - ii) Possibly, HIST Division members in the locality can also be available to "present" the award to recipient individuals/laboratory/organizations.
 - iii) For awards outside the United States, HIST can contact other history-oriented organizations and/or historians of chemistry and/or interested chemistry professionals to participate in an award ceremony.
- 11) HIST can arrange for special programming events (at local section meetings, regional meetings, or national meetings) to celebrate the awards.
 - i) One can imagine:
 - (1) A session at the national ACS meeting once each year to honor the year's awardees. In the years that the awards are mono-disciplinary, HIST might be able to encourage joint symposia.
 - (2) Either a session or an award speech could be given at the relevant regional meetings.
 - (3) It is possible that some local sections would wish to honor awardees as well at their local section meetings.

Notes

To reproduce the first page of the journal articles (though not the patents), permissions from the publishers are likely to be required. If these are not forthcoming, then a simple plaque can be designed which simply states

the title of the publication, the journal citation, the authors, the dates and locations, and describes the seminal achievements briefly.

Possible Issues

1. Should HIST decide to proceed, is ACS approval required?

Background. Should HIST want to use the ACS logo, ACS approval likely would be required. Should HIST want to use the ACS name on the plaque, ACS approval may also be required.

Additional background information. One of our Board members recalls that when the Landmarks program started, designations and mounted plaques were made through the Office of Public Outreach until someone decided that the ACS name shouldn't be permanently displayed without more oversight and approval than just the Landmarks advisory committee. That's when the Board stepped in and now everything needs Board approval.

2. Do the Landmark's program people know about this? What would their reaction be? Would they be cooperative or adversarial?

JIS has (in New Orleans) discussed this possible initiative informally with Jud Ginsburg. He seemed supportive of the idea without promising any tangible support.

3. Are costs more than just that of the plaque?

As now proposed, the only expenses would be the manufacture and shipping of the plaques. All other incidentals would be minor, e.g., postage for the nominating and awards committees. The quote is 9x 12" \$119 each; 12x 15" \$188 each.

As now planned, any ceremony would be held by the recipient and/or local section.

4. Would there be a ceremony for each plaque? If so, who attends and what costs are involved"

See response to #3, as now proposed.

5. Does CHF know of this idea? Just how would CHF react to this program?

CHF does not yet know of this idea. It is difficult to predict CHF's response. However, CHF has much on its plate, including sponsoring a number of awards. One can be optimistic that CHF would take on a supportive, encouraging role. This optimism, according to one Board member, is contrary to some responses to the Landmark program. Extra effort by HIST may be required to "smooth the way," if at all possible. JIS has agreed to interface with Arnold Thackray.

6. Would CHF, or other organizations, be willing to support the program? Would they require their names to be on the plaque?

One cannot predict such answers. It is likely that HIST would not want many "co-sponsors" names on each plaque. However, HIST can create many ways in which the contributors are acknowledged. For example, CHF does not acknowledge individuals, except for multimillion dollar donations, except in their magazines and mailings.

7. The goal is to place each plaque outside the laboratory or office where the publication/patent work was

performed. In many cases those locations no longer exist (from experience on the Landmarks committee.) What then?

It would be up to the recipient institution, hopefully in collaboration with the named authors if still alive, to decide on an appropriate location.

8. The purpose of the Landmark program was to make the information available to the general public first, not the chemistry elite. In the current proposal, it doesn't seem as if the public would see much if any of this information.

Quite correctly, the plaques will be essentially visible only to those individuals walking down the halls near the laboratories or offices where the discoveries/inventions were performed. However, as many (most?) of these will be esoteric publications (e.g., Michaelis-Menten equation, the Woodward-Hoffmann rules, the preparation of the first Nobel gas compound, the synthesis of Vitamin B 12, the synthesis and identification of C60, indeed, perhaps all of the Nobel prizes!), the goal is to celebrate within the profession as well as outside the profession.

9. Once a plaque is mounted, what happens if the company is sold, the building demolished, or other activities that require the movement of the plaque? Is there any provision for the plaque to return to HIST rather than going home with someone? Or doesn't that matter?

This is an interesting but minor issue. A peripheral response is that, hopefully, the recipient institution would value the plaque sufficiently that it would move it to an appropriate location.